



## MATERIAL SAFETY DATA SHEET

### Product Identification

#### 【Product Name】

Methylammonium chloride

#### 【Synonyms】

Methanamine, hydrochloride  
Methanaminium chloride  
Methylammonium chloride  
Monomethylammonium chloride

#### 【CAS】 593-51-1

#### 【Formula】 CH<sub>6</sub>ClN

#### 【Molecular Weight】 67.52

#### 【EINECS】 209-795-0

#### 【RTECS】 PA0603000

#### 【RTECS Class】 Drug

#### 【Merck】 12,6095

#### 【Beilstein/Gmelin】 3588822

#### 【Beilstein Reference】 4-04-00-00118

#### 【EC Class】 harmful

### Physical and Chemical Properties

#### 【Appearance】 White crystals.

#### 【Solubility in water】 Soluble

#### 【Melting Point】 228 - 233



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**【Density】** 1.23 g/cm<sup>3</sup>

### **【Usage】**

Chemical synthesis, buffering agent. The dea lists methylamine as a precursor for many illicit drugs.

### **First Aid Measures**

#### **【Ingestion】**

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

#### **【Inhalation】**

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. DO NOT use mouth-to-mouth respiration.

#### **【Skin】**

Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

#### **【Eyes】**

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

### **Handling and Storage**

#### **【Storage】**

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

#### **【Handling】**

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation. Wash clothing before reuse.



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### Hazards Identification

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#### **【Inhalation】**

Causes respiratory tract irritation. Can produce delayed pulmonary edema.

**【Skin】** Causes skin irritation.

**【Eyes】** Causes eye irritation. May cause chemical conjunctivitis.

#### **【Ingestion】**

May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed.

**【EC Risk Phrase】** R 21/22 36/37/38

**【EC Safety Phrase】** S 26 36/37/39

### Exposure Controls/Personal Protection

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#### **【Personal Protection】**

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure.

#### **【Respirators】**

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

**【Exposure Effects】** Effects may be delayed.

**【Poison Class】** 4

### Fire Fighting Measures

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#### **【Fire Fighting】**

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly





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toxic gases may be generated by thermal decomposition or combustion. To extinguish fire use water spray, dry chemical, carbon dioxide, or appropriate foam.

### Accidental Release Measures

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#### **【Small spills/leaks】**

Clean up spills immediately, using the appropriate protective equipment. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

### Stability and Reactivity

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#### **【Disposal Code】 3**

#### **【Incompatibilities】**

Moisture, acid anhydrides, acid chlorides, acids, oxidizing agents.

#### **【Stability】**

Stable at room temperature in closed containers under normal storage and handling conditions.

#### **【Decomposition】**

Hydrogen chloride, nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.

### Transport Information

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#### **【HS Code】 2921 11 90**